AUTHOR INDEX

ADU, S. V. See Beavington, F., 127.

ANDERSON, C. H. Comparison of tillage and chemical summerfallow in a semiarid region, 397.

BAIER, W. See Sly, W. K., 329.

BAILEY, L. D. and BEAUCHAMP, E. G. Nitrate reduction, and redox potentials measured with permanently and temporarily placed platinum electrodes in saturated soils, 51.

BALLANTYNE, A. K. Wheat yields and change in cations after leaching soil with water containing increasing rates of potassium refinery dust, 405.

BANNER, J. A. See Harlan, R. L., 249.

BEAUCHAMP, E. G. See Bailey, L. D., 51.

BEAVINGTON, F. and ADU, S. V. Studies on the effects of restricted rooting depth on the production of grass and Scots pine, 127.

BEDWANY, A. L. See Valentine, K. W. G., 461.

BEKE, G. J. and ZWARICH, M. A. Chemical and mineralogical characteristics of cutans from B horizons of three Manitoba soils, 221.

BETTANY, J. R. See Sadler, J. M., 308.

BHOOJEDHUR, S. See Lavkulich, L. M., 439.

BISAL, FREDERICK and PELTON, W. L. Effect of freeze-drying on the surface properties of soils as measured by the heat of immersion, 229.

BISHOP, R. F. and MacEACHERN, C. R. Response of spring wheat and barley to nitrogen, phosphorus and potassium, 1.

BOURBEAU, G. A. See Guertin, R. K., 243.

BOURGET, S. J. See Cheng, B. T., 125.

BOURGET, S. J. See Cheng, B. T., 323.

BOWREN, K. E. See Nuttall, W. F., 371.

BROWN, D. M. See Selirio, I. S., 516.

BRYDON, J. E. See MacLean, A. J., 449.

BRYDON, J. E. See McKeague, J. A., 483.

BULLEN, M. R. See Ivarson, K. C., 261.

CAIRNS, R. R. Changes in a Solonetz soil caused by the long-term heavy fertilization of bromegrass, 299.

CAIRNS, R. R. Effect of deep plowing on the fertility status of Black Solonetz soils, 411.

CAIRNS, R. R. and MOSCHOPEDIS, S. E. Coal, sulfomethylated coal and sulfonated coal as fertilizers for Solonetz soil, 59.

CAMERON, D. R., NYBORG, M., TOOGOOD, J. A. and LAVERTY, D. H. Accuracy of field sampling for soil tests, 165.

CHENG, B. T., BOURGET, S. J. and OUELLETTE, G. J. Effect of some soil physical properties on growth and manganese, iron, aluminum and molybdenum content of oats, 125.

CHENG, B. T., BOURGET, S. J. and OUELLETTE, G. J. Influence of alternate freezing and thawing on the availability of some soil minerals, 323.

CHISHOLM, D. See Stewart, D. K. R., 379.

CHO, C. M. Convective transport of ammonium with nitrification in soil, 339.

DAY, J. H. See McKeague, J. A., 105.

DE JONG, E. See Yang, S. J., 211.

DUMANSKI, J. and PAWLUK, S. Unique soils of the foothills region, Hinton, Alberta, 351.

EMMOND, G. S. Effect of rotations, tillage treatments and fertilizers on the aggregation of a clay soil, 235.

FARSTAD, L. See Sneddon, J. I., 138.

FEHR, P. I. See Soper, R. J., 45.

FERGUSON, W. S. and GORBY, B. J. Effect of various periods of seed-down to alfalfa and bromegrass on soil nitrogen, 65.

FREEZE, R. ALLAN. See Harlan, R. L., 249.

GARDNER, E. H. See John, Matt K., 363.

GONZALEZ, A. See Hubert, G., 157.

GORBY, B. J. See Ferguson, W. S., 65.

GUERTIN, R. K. and BOURBEAU, G. A. Dry grinding of soil thin sections, 243.

GUPTA, UMESH C. Boron and molybdenum nutrition of wheat, barley and oats grown in Prince Edward Island soils, 415.

HAMILTON, H. A. See MacMillan, K. A., 293.

HARLAN, R. L., BANNER, J. A. and FREEZE, R. ALLAN. Interpretation of electrical-resistance soil moisture data for a freeze-thaw environment, 249.

HEAD, W. K. and McKERCHER, R. B. Recovery of pesticide residues from Chernozemic soils, 423.

HEDLIN, R. A. Nitrate contamination of ground water in the Neepawa-Langruth area of Manitoba, 75.

HENNIG, A. M. F. See Hoyt, P. B., 177.

HOBBS, E. H. and KROGMAN, K. K. Overwinter precipitation storage in irrigated and non-irrigated Chin loam soil, 13.

HOFFMAN, D. W. See MacLean, A. H., 302.

HOYT, P. B. and HENNIG, A. M. F. Effect of alfalfa and grasses on yield of subsequent wheat crops and some chemical properties of a Gray Wooded soil, 177.

HUBERT, G. et GONZALEZ, A. Extraction des acides fulviques d'un horizon spodique par une résine échangeuse d'ions de type H positif, 157.

IVARSON, K. C. and BULLEN, M. R. Soil microfungi of the "sols de l'Anse" in Quebec, 261.

JOHN, MATT K. Soil properties affecting the retention of phosphorus from effluent, 315.

JOHN, MATT K. and GARDNER, E. H. Forms of phosphorus in a sequence of soils developed on Fraser River alluvium, 363.

KHAN, S. U. Nitrogen fractions in a Gray Wooded soil as influenced by long-term cropping systems and fertilizers, 431.

KHAN, S. U. and SOWDEN, F. J. Distribution of nitrogen in the Black Solonetzic and Black Chernozemic soils of Alberta, 185.

KODAMA, H. and SCHNITZER, M. Evidence for interlamellar adsorption of organic matter by clay in a Podzol soil, 509.

KOWALENKO, C. G. and McKERCHER, R. B. Phospholipid components extracted from Saskatchewan soils, 19.

KROGMAN, K. K. See Hobbs, E. H., 13.

KROUSE, H. R. See Lowe, L. E., 129.

LAVERTY, D. H. See Cameron, D. R., 165.

LAVKULICH, L. M. See Parsons, D. C., 269.

LAVKULICH, L. M. See Sneddon, J. I., 138.

LAVKULICH, L. M., BHOOJEDHUR, S. and ROWLES, C. A. Soils with placic horizons on the west coast of Vancouver Island, British Columbia, 439.

LEVESQUE, M. and VENDETTE, E. D. Selenium determination in soil and plant materials, 85.

LORD, T. M. See Valentine, K. W. G., 461.

LOWE, L. E. and PARASHER, C. D. Observations on clay-size organo-mineral complexes isolated from soil by ultrasonic dispersion, 136.

LOWE, L. E., SASAKI, A. and KROUSE, H. R. Variations of sulfur-34: sulfur-32 ratios in soil fractions in western Canada, 129.

MacEACHERN, C. R. See Bishop, R. F., 1.

MACK, A. R. Yield of bromegrass and removal of nitrogen, phosphorus and potassium under modified soil-temperature field conditions, 195.

MACK, A. R. and SANDERSON, R. B. Sensitivity of the nitrate-ion membrane electrode in various soil extracts, 95.

MacLEAN, A. H., WILLIS, A. L. and HOFFMAN, D. W. Distribution of phosphorus fractions within profiles of three Ontario soils, 302.

MacLEAN, A. J. and BRYDON, J. E. Fixation and release of potassium in relation to the mineralogy of the clay fraction of some selected soil horizon samples, 449.

MacMILLAN, K. A. and HAMILTON, H. A. Carrot response to soil temperature and copper, manganese, zinc and magnesium, 293.

MacMILLAN, K. A. and MILLETTE, J. F. G. Influence of mulch on soil temperature and corn yields, 305.

McKEAGUE, J. A. Organic matter in particle-size and specific gravity fractions of some Ah horizons, 499.

McKEAGUE, J. A., DAY, J. H. and SHIELDS, J. A. Evaluating relationships among soil properties by computer analysis, 105.

McKEAGUE, J. A., NOWLAND, J. L., BRYDON, J. E. and MILES, N. M. Characterization and classification of five soils from eastern Canada having prominently mottled B horizons, 483.

McKERCHER, R. B. See Head, W. K., 423.

McKERCHER, R. B. See Kowalenko, C. G., 19.

MICHALYNA, W. Distribution of various forms of aluminum, iron and manganese in the Orthic Gray Wooded, Gleyed Orthic Gray Wooded and related Gleysolic soils in Manitoba, 23.

MILES, N. M. See McKeague, J. A., 483.

MILLETTE, J. F. G. See MacMillan, K. A., 305.

MOSCHOPEDIS, S. E. See Cairns, R. R., 59.

MYERS, R. J. K. See Paul, E. A., 37.

NOWLAND, J. L. See McKeague, J. A., 483.

NUTTALL, W. F., ZANDSTRA, H. G. and BOWREN, K. E. Exchangeable ammonium- and nitrate-nitrogen related to yields of Conquest barley grown as second or third crop after fallow in northeastern Saskatchewan, 371.

NYBORG, M. See Cameron, D. R., 165.

ODYNSKY, Wm. Mounds (humpies) in the Peace River area of Alberta, 132.

OUELLETTE, G. J. See Cheng, B. T., 125.

OUELLETTE, G. J. See Cheng, B. T., 323.

PARASHER, C. D. See Lowe, L. E., 136.

PARSONS, D. C., LAVKULICH, L. M. and VAN RYSWYK, A. L. Soil properties affecting the vegetative composition of *Agropyron* communities at Kamloops, British Columbia, 269.

PAUL, E. A. and MYERS, R. J. K. Effect of soil moisture stress on uptake and recovery of tagged nitrogen by wheat, 37.

PAWLUK, S. Characteristics of Fera Eluviated Gleysols developed from acid shales in northwestern Alberta, 113.

PAWLUK, S. See Dumanski, J., 351.

PELTON, W. L. See Bisal, Frederick, 229.

RACZ, G. J. See Soper, R. J., 45.

REICHMAN, G. A. See Sandoval, F. M., 143.

ROWLES, C. A. See Lavkulich, L. M., 439.

SADLER, J. M., BETTANY, J. R. and STEWART, J. W. B. Application of Triton X-100 liquid scintillant to the assay of P-32, P-33 or S-35 in plant digests or soil extracts, 308.

SANDERSON, R. B. See Mack, A. R., 95.

SANDOVAL, F. M. and REICHMAN, G. A. Some properties of Solonetzic (Sodic) soils in western North Dakota, 143.

SASAKI, A. See Lowe, L. E., 129.

SCHNITZER, M. See Kodama, H., 509.

SELIRIO, I. S. and BROWN, D. M. Moisture budgeting technique for a fallow soil in spring, 316.

SHIELDS, J. A. See McKeague, J. A., 105.

SLY, W. K. and BAIER, W. Growing seasons and the climatic moisture index, 329.

SNEDDON, J. I., FARSTAD, L. and LAVKULICH, L. M. Fiber content determination and the expression of results in organic soils, 138.

SOMMERFELDT, T. G. and VAN SCHAIK, J. C. Influence of soil pH on surface charge and water transmission, 277.

SOPER, R. J., RACZ, G. J. and FEHR, P. I. Nitrate nitrogen in the soil as a means of predicting the fertilizer nitrogen requirements of barley, 45.

SOWDEN, F. J. See Khan, S. U., 185.

ST. ARNAUD, R. J. See Stonehouse, H. B., 283.

ST. ARNAUD, R. J. See Sudom, M. D., 385.

STEWART, D. K. R. and CHISHOLM, D. Long-term persistence of BHC, DDT and chlordane in a sandy loam soil, 379.

STEWART, J. W. B. See Sadler, J. M., 308.

STONE, B. Effect of temperature and shaking rate on sodium bicarbonate soluble phosphorus, 312.

STONEHOUSE, H. B. and ST. ARNAUD, R. J. Distribution of iron, clay and extractable iron and aluminum in some Saskatchewan soils, 283.

SUDOM, M. D. and ST. ARNAUD, R. J. Use of quartz, zirconium and titanium as indices in pedological studies, 385.

TOOGOOD, J. A. See Cameron, D. R., 165.

TOWNSHEND, J. L. A rotary spindle for the preparation of small uniform soil columns, 310.

VALENTINE, K. W. G., LORD, T. M., WATT, W. and BEDWANY, A. L. Soil mapping accuracy from black and white, color, and infrared aerial photography, 461.

VAN RYSWYK, A. L. Radiocarbon date for a cryoturbated Alpine Regosol in south central British Columbia, 513.

VAN RYSWYK, A. L. See Parsons, D. C., 269.

VAN SCHAIK, J. C. See Sommerfeldt, T. G., 277.

VENDETTE, E. D. See Levesque, M., 85.

WALKER, D. R. Selenium in forage species in central Alberta, 506.

WATT, W. See Valentine, K. W. G., 461.

WEBBER, M. D. Aluminum in plant tissue grown in soil, 471.

WEBBER, M. D. Some properties of the interlayer phosphate material formed in Wyoming bentonite, 477.

WILLIS, A. L. See MacLean, A. H., 302.

YANG, S. J. and DE JONG, E. Effect of soil water potential and bulk density on water uptake patterns and resistance to flow of water in wheat plants, 211.

ZANDSTRA, H. G. See Nuttall, W. F., 371.

ZWARICH, M. A. See Beke, G. J., 221.